QUIZ 7 - MATH 151 YOUR NAME:____

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find the absolute maximum and the absolute minimum of the function $f(x) = x\sqrt{4-x^2}$ in the closed interval [-1, 2].

2. (a) Verify that the function $f(x) = \frac{x}{x+2}$ satisfies the hypotheses of the Mean Value Theorem on the interval [1, 4].

(b) Find all numbers c that satisfy the conclusions of the Mean Value Theorem for f in [1, 4].